

# Site Listings





# Unknown Source/Water Supply Sites

## Sites With Unknown Sources of Contamination Where Immediate Environmental Concerns Have Been Addressed

The 50 sites listed below include both residential and municipal potable wells that have become contaminated and were dealt with by NJDEP in past years. At the majority of the sites, volatile organic compounds were the primary contaminants of concern detected and some form of receptor control has been installed to protect public health. For residential wells, once contamination was confirmed at levels above state drinking water standards, a Point-of-Entry Treatment (POET) system normally was installed as an interim measure until a long-term water supply alternative could be developed. In many cases the long-term solution was to extend water lines to affected properties, while some involved maintaining and monitoring the existing POET systems. Some municipal water supply wells had to be taken out of service or relocated. All eligible costs of interim and long-term water treatment systems, supplies and other actions were reimbursed by NJDEP through the State's Spill Fund. For affected municipal wells, NJDEP paid for construction of treatment systems also through the Spill Fund while the local governments covered the costs associated with operation, maintenance and monitoring of the systems. NJDEP has completed unknown source investigations at the sites marked with asterisks, and is, or will be, conducting unknown source investigations at many of the remaining sites to identify possible sources of the ground water contamination.

### Atlantic County

<b>Site Name:</b> New York Avenue Ground Water Contamination <b>Street Address:</b> New York Avenue <b>Municipality:</b> Absecon City	<b>Action Taken:</b> Receptor Control–Water Line  <b>Contaminants:</b> Tetrachloroethylene 1,1,1-Trichloroethane 1,1-Dichloroethylene
<b>Site Name:</b> Boston Avenue Ground Water Contamination* <b>Street Address:</b> Boston Avenue <b>Municipality:</b> Egg Harbor Township	<b>Action Taken:</b> Receptor Control–Water Line  <b>Contaminants:</b> Tetrachloroethylene Trichloroethylene Mercury
<b>Site Name:</b> Delilah Oaks Ground Water Contamination <b>Street Address:</b> Delilah Road and Kingsley Drive <b>Municipality:</b> Egg Harbor Township	<b>Action Taken:</b> Receptor Control–Water Line  <b>Contaminants:</b> Tetrachloroethylene Trichloroethylene cis-1,2-Dichloroethene
<b>Site Name:</b> Farmington II Ground Water Contamination <b>Street Address:</b> Doughty and Fire Roads and Spruce Avenue <b>Municipality:</b> Egg Harbor Township	<b>Action Taken:</b> Receptor Control–Water Line  <b>Contaminants:</b> Mercury
<b>Site Name:</b> Carvel Avenue Ground Water Contamination* <b>Street Address:</b> Carvel Avenue <b>Municipality:</b> Galloway Township	<b>Action Taken:</b> Receptor Control–POETS/Water Line  <b>Contaminants:</b> Benzene
<b>Site Name:</b> Lisa Drive Ground Water Contamination* <b>Street Address:</b> Lisa Drive <b>Municipality:</b> Galloway Township	<b>Action Taken:</b> Receptor Control–POETS  <b>Contaminants:</b> Tetrachloroethylene Trichloroethylene

## Atlantic County (continued)

**Site Name:** Haddon Avenue Ground Water Contamination  
**Street Address:** Haddon Avenue  
**Municipality:** Northfield City

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Trichloroethylene  
Tetrachloroethylene  
Carbon Tetrachloride

**Site Name:** Pinehurst Section Ground Water Contamination  
**Street Address:** Various Locations  
**Municipality:** Galloway Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Trichloroethylene  
Mercury  
Tetrachloroethylene  
Methylene Chloride

**Site Name:** Spring Mill Drive Ground Water Contamination  
**Street Address:** Spring Mill Drive  
**Municipality:** Galloway Township

**Action Taken:** Receptor Control–POETS/Water Line

**Contaminants:** Trichloroethylene  
Mercury

## Bergen County

**Site Name:** Hackensack Water Company Emerson Well 11  
**Street Address:** Main Street and Glenwood Avenue  
**Municipality:** Emerson Borough

**Action Taken:** Receptor Control–Well Taken Out of Service

**Contaminants:** Trichloroethylene

**Site Name:** Ramapo Indian Hill Regional High School  
**Street Address:** 331 George Street  
**Municipality:** Franklin Lakes Borough

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Tetrachloroethylene

**Site Name:** Magnolia Avenue Ground Water Contamination  
**Street Address:** Magnolia Avenue  
**Municipality:** Maywood Borough

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Tetrachloroethylene  
1,2-Dichloroethane  
Chloroform

**Site Name:** Ridgewood Village Well Dept. Grove Street Well  
**Street Address:** Grove Street  
**Municipality:** Ridgewood Village

**Action Taken:** Receptor Control–Treatment System

**Contaminants:** Tetrachloroethylene

**Site Name:** Ridgewood Village Well Dept. Walthery & Twinney  
**Street Address:** Walthery Avenue and Red Birch Court  
**Municipality:** Ridgewood Village

**Action Taken:** Receptor Control–Treatment System

**Contaminants:** Tetrachloroethylene  
1,1,1-Trichloroethane  
Methyl-tertiary-butyl Ether

## Cape May County

**Site Name:** Cape May Court House Ground Water Contamination  
**Street Address:** Various Locations  
**Municipality:** Middle Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Trichloroethylene

## Cape May County (continued)

**Site Name:** Mayville Ground Water Contamination  
**Street Address:** Route 9 & 4th and Reading Avenues  
**Municipality:** Middle Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Tetrachloroethylene  
Polychlorinated Biphenyls

**Site Name:** Whippoorwill Campground  
**Street Address:** 810 South Shore Road  
**Municipality:** Upper Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Benzene  
Xylene  
Toluene

## Cumberland County

**Site Name:** Vineland City Water & Sewer Authority Well 7  
**Street Address:** Mill and Almond Roads  
**Municipality:** Vineland City

**Action Taken:** Receptor Control–Treatment System/Water Line  
Tetrachloroethylene  
Trichloroethylene

## Essex County

**Site Name:** Fairfield Township Well Department Wells 2 & 7  
**Street Address:** Passaic Avenue and Greenbrook and Fairfield Roads  
**Municipality:** Fairfield Township

**Action Taken:** Receptor Control–Wells Taken Out of Service

**Contaminants:** 1,1,1-Trichloroethane–Wells 2 & 7  
Trichloroethylene–Wells 2 & 7  
1,2-Dichloroethane–Well 2  
Tetrachloroethylene–Well 7

**Site Name:** West Caldwell Boro. Ground Water Contamination  
**Street Address:** Passaic and Harrison Avenues  
**Municipality:** West Caldwell Borough

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Trichloroethylene  
1,1,1-Trichloroethane  
cis-1,2-Dichloroethene

## Gloucester County

**Site Name:** Villa Rosello School  
**Street Address:** Main Street and Catawba Road  
**Municipality:** Franklin Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Mercury

## Hunterdon County

**Site Name:** Pennsylvania Avenue Ground Water Contamination  
**Street Address:** Pennsylvania Avenue  
**Municipality:** Flemington Borough

**Action Taken:** Receptor Control

**Contaminants:** Benzene  
Tetrachloroethylene

## Mercer County

**Site Name:** Claflin Avenue Ground Water Contamination  
**Street Address:** Claflin and St. Paul Avenues  
**Municipality:** Ewing Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Volatile Organic Compounds

## Mercer County (continued)

**Site Name:** Harding Street Ground Water Contamination  
**Street Address:** Harding Street  
**Municipality:** Ewing Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** 1,1,1-Trichloroethane  
Tetrachloroethylene  
1,1-Dichloroethylene

**Site Name:** Morningside Court Ground Water Contamination  
**Street Address:** West Delaware Avenue and Route 31  
**Municipality:** Pennington Borough

**Action Taken:** Receptor Control–POETS

**Contaminants:** Tetrachloroethylene

## Middlesex County

**Site Name:** Mountainview Terrace Ground Water Contamination  
**Street Address:** Mountainview Terrace  
**Municipality:** Dunellen Borough

**Action Taken:** Receptor Control–POETS/Water Line

**Contaminants:** Tetrachloroethylene  
Trichloroethylene

**Site Name:** Franklin Avenue Ground Water Contamination  
**Street Address:** Franklin Avenue  
**Municipality:** Piscataway Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Tetrachloroethylene  
Trichloroethylene

**Site Name:** Millstone Apartments & Holiday Inn\*  
**Street Address:** Route 1  
**Municipality:** Plainsboro Township

**Action Taken:** Receptor Control

**Contaminants:** Trichloroethylene  
Tetrachloroethylene

## Morris County

**Site Name:** Netcong Borough Water Department Well 5  
**Street Address:** Flanders Road  
**Municipality:** Netcong Borough

**Action Taken:** Receptor Control–Well  
Temporarily Taken Out of Service

**Contaminants:** Not Available

## Ocean County

**Site Name:** Butler Boulevard Ground Water Contamination\*  
**Street Address:** Butler Boulevard  
**Municipality:** Berkeley Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Benzene

**Site Name:** Breton Harbors Ground Water Contamination  
**Street Address:** Breton Harbor Drive  
**Municipality:** Dover Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Tetrachloroethylene  
Trichloroethylene  
1,1,1-Trichloroethane  
1,1-Dichloroethylene

**Site Name:** Gilford Park Ground Water Contamination\*  
**Street Address:** Victor Avenue  
**Municipality:** Dover Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Tetrachloroethylene

## Ocean County (continued)

<b>Site Name:</b> Holly Village Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–Water Line
<b>Street Address:</b> Harvey Road and Alfred & Holly Village Lanes	
<b>Municipality:</b> Dover Township	<b>Contaminants:</b> Benzene
<b>Site Name:</b> Shelter Cove Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–Water Line
<b>Street Address:</b> Fischer Boulevard	
<b>Municipality:</b> Dover Township	<b>Contaminants:</b> Volatile Organic Compounds
<b>Site Name:</b> Barnegat Pines North Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–POETS/Water Line
<b>Street Address:</b> Various Locations	
<b>Municipality:</b> Lacey Township	<b>Contaminants:</b> Tetrachloroethylene Trichloroethylene
<b>Site Name:</b> Constitution Drive Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–POETS/Water Line
<b>Street Address:</b> Constitution Drive	
<b>Municipality:</b> Lacey Township	<b>Contaminants:</b> Benzene Mercury
<b>Site Name:</b> Lake Barnegat Dr. N Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–Water Line/ POETS
<b>Street Address:</b> Lake Barnegat Drive N	
<b>Municipality:</b> Lacey Township	<b>Contaminants:</b> Tetrachloroethylene Trichloroethylene
<b>Site Name:</b> Lanoka Harbor Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–Water Line
<b>Street Address:</b> Lanoka Harbor	
<b>Municipality:</b> Lacey Township	<b>Contaminants:</b> 1,1,1-Trichloroethane 1,1-Dichloroethylene
<b>Site Name:</b> Great Bay Plaza	<b>Action Taken:</b> Receptor Control–Water Line
<b>Street Address:</b> 232 Mathistown Road	
<b>Municipality:</b> Little Egg Harbor Township	<b>Contaminants:</b> Tetrachloroethylene
<b>Site Name:</b> Little Egg Harbor Atlantis Section	<b>Action Taken:</b> Receptor Control–Water Line
<b>Street Address:</b> Saint Andrews Drive	
<b>Municipality:</b> Little Egg Harbor Township	<b>Contaminants:</b> Tetrachloroethylene
<b>Site Name:</b> Lucy Road Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–New Wells Drilled
<b>Street Address:</b> Lucy Road	
<b>Municipality:</b> Lakewood Township	<b>Contaminants:</b> Nitrates
<b>Site Name:</b> Pine Lake Park Ground Water Contamination*	<b>Action Taken:</b> Receptor Control–POETS/Water Line
<b>Street Address:</b> Morningside Street	
<b>Municipality:</b> Manchester Township	<b>Contaminants:</b> Trichloroethylene 1,1,1-Trichloroethane Carbon Tetrachloride

## Passaic County

<b>Site Name:</b> High Crest Lake Water Company*	<b>Action Taken:</b> Receptor Control–Well Taken Out of Service
<b>Street Address:</b> 73 High Crest Drive	
<b>Municipality:</b> West Milford Township	<b>Contaminants:</b> Volatile Organic Compounds

## Somerset County

**Site Name:** Longwood Avenue Ground Water Contamination\*  
**Street Address:** Longwood Avenue  
**Municipality:** Bound Brook Borough

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Volatile Organic Compounds

**Site Name:** Laurel Avenue Ground Water Contamination  
**Street Address:** Laurel Avenue  
**Municipality:** Franklin Township

**Action Taken:** Receptor Control–POETS

**Contaminants:** Carbon Tetrachloride  
1,1 Dichloroethylene  
Trichloroethylene  
Tetrachloroethylene  
1,1,2 Trichloroethane

**Site Name:** Elizabethtown Well Co. Green Brook Well Field  
**Street Address:** 115 Rock Avenue  
**Municipality:** Green Brook Township

**Action Taken:** Receptor Control–Treatment System

**Contaminants:** Volatile Organic Compounds

**Site Name:** Old Champlain Ground Water Contamination  
**Street Address:** Old Champlain Road  
**Municipality:** Hillsborough Township

**Action Taken:** Receptor Control–Water Line

**Contaminants:** Volatile Organic Compounds

## Sussex County

**Site Name:** Byram Township Intermediate School  
**Street Address:** 12 Mansfield Drive  
**Municipality:** Byram Township

**Action Taken:** Receptor Control–POETS

**Contaminants:** Volatile Organic Compounds

**Site Name:** Lake Tamarack Water Company Well 3  
**Street Address:** Lakeside Road  
**Municipality:** Hardyston Township

**Action Taken:** Receptor Control–POETS

**Contaminants:** Carbon Tetrachloride

## Union County

**Site Name:** Elizabethtown Water Co. Green Brook Park Well  
**Street Address:** Park & West End Avenues  
**Municipality:** Plainfield City

**Action Taken:** Receptor Control–Treatment System

**Contaminants:** Volatile Organic Compounds

**Total: 50**



# **Unknown Source/Water Supply Sites**

## **Summary of Sites Where Unknown Source Ground Water Investigations Were Completed in 2001**

The Environmental Measurements and Site Assessment Section of the Site Remediation Program is responsible for identifying, investigating and confirming suspected sources of potable well contamination. There are two objectives of unknown source investigations. First, identifying the source of contamination enables either a responsible party or NJDEP to implement a remedial action to stop the discharge of contamination or remove the source material to limit further public exposure. Second, the identification of the responsible parties allows NJDEP to pursue them for past expenses associated with these cases. Funding for the unknown source investigations is provided under a cooperative agreement with the USEPA.

The unknown source investigations completed during 2001 are summarized below.

### **Atco Avenue Ground Water Contamination Waterford Township, Camden County**

Sampling conducted by the Camden County Health Department between 1990 and 1992 identified 63 private potable wells in the Atco area of Waterford Township that were contaminated with volatile organic compounds and/or mercury at levels exceeding New Jersey Drinking Water Standards. The primary volatile organic contaminants were trichloroethylene, tetrachloroethylene (also known as perchloroethylene), 1,1 dichloroethylene, 1,1,1 trichloroethane and benzene. NJDEP installed Point-of-Entry Treatment (POET) systems on the contaminated wells as an interim measure and Waterford Township subsequently extended public water lines to the area. Approximately 185 properties with contaminated wells or wells at risk of becoming contaminated were connected to the water lines when the project was completed in 1999.

NJDEP has identified multiple sources for the widespread ground water contamination in the Atco area. William Juliano and Son Fuel Service was identified as the likely source of the benzene contamination in private potable wells on Cooper Road and Custom Craft Cleaners was identified as the likely source of the trichloroethylene and tetrachloroethylene in wells in the Pamela Court area. No likely sources were identified for the trichloroethylene and tetrachloroethylene found in other private potable wells due to the relatively low levels detected and the widespread distribution of the contaminated wells. In addition, no source was identified for the mercury contamination that was detected in some of the wells. Due to the widely scattered locations of the mercury-contaminated wells and the historical land use in the area, NJDEP has concluded the mercury contamination may be attributable one or more potential non-point sources.

### **Babcock and Forest Walk Ground Water Contamination Hamilton Township, Atlantic County**

Sampling conducted by the Atlantic County Health Department in 1991 identified six private potable wells in this area that were contaminated with volatile organic compounds and mercury at levels exceeding New Jersey Drinking Water Standards. The primary volatile organic contaminants were benzene, 1,2 dichloroethylene, trichloroethylene, tetrachloroethylene (also known as perchloroethylene) and vinyl chloride. NJDEP installed Point-of-Entry Treatment (POET) systems on five of the six wells to provide potable water for the residents. NJDEP's Division of Publicly Funded Site Remediation subsequently completed a water supply alternatives analysis that concluded the continued use of POET systems was the most cost-effective long-term remedy for five of the six homes. In 1993 the Township used funds provided by NJDEP to extend a public water line to the sixth residence. Potable well sampling conducted in 1995 indicated decreasing levels of volatile organic compounds.

NJDEP completed a source investigation for the Babcock and Forest Walk Ground Water Contamination site in 2001. Based on the investigation, NJDEP identified the Hamilton Township Landfill on Mays Landing-Somers Point Road as a likely source of the volatile organic contamination. NJDEP does not believe the mercury contamination that affects some of the wells in the Babcock and Forest Walk area is due to the landfill but is more likely attributable to one or more non-point sources.

## **Barneget Pines North Ground Water Contamination Lacey Township, Ocean County**

The Barneget Pines North Ground Water Contamination case consists of seven private potable wells contaminated with volatile organic compounds at levels exceeding New Jersey Drinking Water Standards. Benzene and/or xylenes were detected in six wells and 1,1,1, trichloroethane was detected in one well in 1986. NJDEP established a Ground Water Impact Area (GWIA) for the site and water lines were extended to homes within the GWIA in 1988.

A comprehensive investigation by NJDEP did not identify a source of the volatile organic contamination. Based on the nature, distribution and levels of contaminants originally detected in the private potable wells, NJDEP has concluded that the contamination was a result of an isolated discharge event with little or no potential for migration outside the GWIA.

## **Boston Avenue Ground Water Contamination Egg Harbor Township, Atlantic County**

The Boston Avenue Ground Water Contamination case consists of 21 private potable wells that are contaminated with mercury or volatile organic compounds at levels exceeding New Jersey Drinking Water Standards. The contamination was discovered by the Atlantic County Health Department in 1989. NJDEP established a Ground Water Impact Area (GWIA) for the site in 1991 and public water lines were extended to all of the homes within the GWIA by 1995. Sampling of private potable wells located outside the GWIA by NJDEP in 2000 did not reveal any additional contaminated wells.

A comprehensive investigation by NJDEP in this predominantly residential area did not identify a likely source for the contamination affecting 18 of the private potable wells. Based on the levels of the contaminants originally detected in the wells, the distribution of the wells and the levels of the contaminants in the ground water, NJDEP has concluded that the contamination was the result of an isolated discharge event with little or no potential for migration outside the GWIA.

NJDEP's investigation also did not identify a source of the mercury in the remainder of the contaminated wells. Due to the relatively low levels of this contaminant, the absence of mercury in ground water samples and the historical land use in the area, NJDEP has concluded the mercury contamination is attributable to one or more non-point sources.

## **Carvel Avenue Ground Water Contamination Galloway Township, Atlantic County**

This site consists of six private potable wells that were contaminated with several gasoline-related volatile organic compounds, including benzene, as well as the chlorinated volatile organic compounds 1,2 dichloroethane and tetrachloroethylene. The contaminated wells were discovered in 1990 by the Atlantic County Health Department. NJDEP installed Point-of-Entry Treatment (POET) systems on the contaminated wells as an interim measure to provide potable water for the residents. NJDEP subsequently delineated a Ground Water Impact Area (GWIA) for the site and public water lines were extended to the residences within the GWIA.

NJDEP has identified the Garden State Parkway Atlantic City Service Area as a source of the contamination that affected the six private potable wells. This site is being addressed under NJDEP's Bureau of Underground Storage Tanks in the Site Remediation Program's Division of Responsible Party Site Remediation.

## **Elizabethtown Water Company- Harrison Street Well Field Contamination West Windsor Township, Mercer County**

The volatile organic contaminants trichloroethylene and tetrachloroethylene (also known as perchloroethylene) were discovered in Municipal Wells 3 and 7 at levels exceeding New Jersey Drinking Water Standards in 1984. In 1996, these contaminants were detected at levels exceeding Drinking Water Standards in Municipal Wells 3 and 8, prompting the Elizabethtown Water Company to close the entire well field.

NJDEP has identified the Princeton Forrestal Campus Sites A and B, FMC Corporation and the David Sarnoff Research Center as suspected sources of the Harrison Street Well Field contamination. A Remedial Investigation of these sites is recommended to determine the extent of the contamination and establish a ground water Classification Exception Area.

## **Holly Village Ground Water Contamination Dover Township, Ocean County**

The Holly Village Ground Water Contamination case consists of 12 private potable wells that were contaminated with volatile organic compounds at levels exceeding New Jersey Drinking Water Standards. Benzene was found in ten of the wells and tetrachloroethylene (also known as perchloroethylene) was found in the remaining two wells. The contaminated wells were identified between 1987 and 1998 and public water lines were extended to the affected residences shortly thereafter. Sampling of 18 nearby private potable wells by NJDEP in 1997 did not reveal any contamination above New Jersey Drinking Water Standards.

NJDEP's investigation of this predominantly residential area did not identify a source of the volatile organic contamination. Based on the levels of the contaminants originally detected in the potable wells, the distribution of the wells and the absence of contamination in potable water samples collected in 1997, NJDEP has concluded the contamination was a result of an isolated discharge event with little or no potential migration outside the original impact area.

## **Lake Barnegat Drive North Ground Water Contamination Lacey Township, Ocean County**

The Lake Barnegat Drive North Ground Water Contamination case consists of 19 private potable wells with volatile organic contamination at levels exceeding New Jersey Drinking Water Standards. The primary contaminant is tetrachloroethylene (also known as perchloroethylene). Other solvents, including carbon tetrachloride and 1,1,1 trichloroethane, were also found when the private wells were sampled in 1987 and 1988. A Ground Water Impact Area (GWIA) encompassing three distinct clusters of contaminated wells was established and water lines were extended to homes within the GWIA between 1988 and 1989.

A comprehensive investigation of possible sources in this predominantly residential area has failed to identify a source of the volatile organic contamination. Based on the distribution of the contaminants originally detected in the affected wells, NJDEP has concluded the contamination is the result of several isolated discharge events, possibly from residential septic systems, with little or no potential for migration outside the GWIA.

## **Longwood Avenue Ground Water Contamination Bound Brook Borough, Somerset County**

The Longwood Avenue Ground Water Contamination case consists of 45 private potable wells that were contaminated with volatile organic compounds at levels exceeding New Jersey Drinking Water Standards. The primary contaminants are tetrachloroethylene and its decomposition products trichloroethylene and cis 1,2 dichloroethylene. The contamination was discovered in 1988. NJDEP installed Point-of-Entry Treatment (POET) systems on the contaminated wells as an interim measure. A Ground Water Impact Area (GWIA) was delineated in 1990 and water lines were extended to the affected homes in 1992.

NJDEP has identified The Clothes Hanger and Zaccardi's Cleaners as possible sources of the ground water contamination in the Longwood Avenue Area. This conclusion is based on the operational histories of the sites, analytical data generated from on-site sampling and off-site ground water sampling, regional ground water flow and the location of the sites with respect to the contaminated wells.

## **Magnolia Avenue Ground Water Contamination Wall Township, Sea Girt Borough and Manasquan Borough, Monmouth County**

In 1997, the Monmouth County Health Department (MCHD) learned that several irrigation wells on Magnolia Avenue in Wall Township were contaminated with tetrachloroethylene (also known as perchloroethylene or PCE). MCHD conducted sampling between 1997 and 1998 that confirmed irrigation wells in the Magnolia Avenue area were highly contaminated with PCE, as well as with lower levels of trichloroethylene (TCE) and other volatile organic compounds. In 1999, MCHD and NJDEP's Division of Publicly Funded Site Remediation conducted a joint study to determine the extent of the PCE contamination in the ground water and evaluate the risk to Sea Girt's municipal supply wells. The study revealed that the plume of shallow ground water contamination extends from Route 35 in Wall Township into Sea Girt Borough and small part of northern Manasquan Borough. MCHD and NJDEP also confirmed that the water from Sea Girt's municipal supply wells

met New Jersey Drinking Water Standards; however, as a precautionary measure, Sea Girt Borough installed a treatment unit at its well field to remove any potential volatile organic contamination. There are no private potable wells in the area at risk of being contaminated due to the ground water plume. A separate investigation conducted by NJDEP and USEPA in late 2001 revealed elevated levels PCE vapors were present in some of the homes and commercial buildings in the plume area close to Route 35 and ventilation systems were installed in those buildings to alleviate the problem. In late 2001, USEPA agreed to address the indoor air problem in the Wall Township area under its removal program. USEPA will perform additional indoor air sampling at the site in early 2002.

NJDEP has identified three sites in Wall Township as suspected sources of the extensive PCE contamination in the ground water in this area. The sites include the former White Swan Dry Cleaners on Sea Girt Avenue (now a Fleet Bank), the former Sun Dry Cleaners on Atlantic Avenue and a Gulf service station on Route 35. Extensive soil and ground water contamination was confirmed at the former White Swan Dry Cleaners. Fleet Bank excavated 820 cubic yards of contaminated soil from its property in late 2001 under the oversight of NJDEP's Division of Responsible Party Site Remediation. No remedial investigative work or remedial actions had occurred at the former Sun Dry Cleaners or the Gulf station as of the end of 2001.

### **Millstone Apartments/Holiday Inn Well Contamination Plainsboro Township, Middlesex County**

In 1985 sampling revealed that the two wells that serve these facilities were contaminated with trichloroethylene and tetrachloroethylene (also known as perchloroethylene) at levels exceeding the New Jersey Drinking Water Standards for these two volatile organic compounds. The wells were closed in 1988 when the facilities connected to the public water supply system.

NJDEP has identified the Princeton Forrestal Campus Sites A and B, FMC Corporation and the David Sarnoff Research Center as likely sources of the volatile organic contamination affecting the two wells. A Remedial Investigation is recommended to delineate the contamination and establish a ground water Classification Exception Area (CEA).

### **Wallington Water Department Wells 5, 8 & Main Avenue Wallington Borough, Bergen County**

Wallington Water Department Wells 5, 8 and Main Avenue were closed during the 1980s after they were determined to be contaminated with volatile organic compounds at levels exceeding New Jersey Drinking Water Standards. The primary contaminants were trichloroethylene, 1,2 dichloroethylene and tetrachloroethylene. One nearby private potable well remained in use until sampling in 2001 revealed it was contaminated with trichloroethylene.

NJDEP has identified the Curtiss-Wright Corporation as a likely source of the volatile organic contamination detected in the three municipal wells, the private potable well and numerous industrial supply wells. Curtiss-Wright is an active Industrial Site Recovery Act case in NJDEP's Bureau of Environmental Evaluation, Cleanup and Responsibility Assessment. A Remedial Investigation is planned to determine the extent of the contamination and to establish a ground water Classification Exception Area (CEA).

Additional Wallington Water Department municipal wells are also closed due to contamination, but likely sources of the contamination affecting these wells have not yet been identified. The Wallington Water Department currently provides potable water to its residents via a bulk purchase agreement with the Passaic Valley Water Commission.